UD | Derivative unit

Product description

The Derivative Unit (model **UD**) is a specific device to amplify the exhaust. The regulating system specifically designed for modulation allows an accurate calibration (tuning) to maximize speed without compromize stability of the actuator. Designed to be used with precision and easy tuning in control systems (amplification of exhaust positioner flow) and also for on/off systems.

Advantages

- **High sensitivity**
- **The specific design allows for accurate regulation of activation on modulating systems**
- **Activation system available in 2 versions for pilot CV flow between 0,1 and 0,8 and for pilot CV flow between 0,8 and 2,5**
- **High exhaust CV**
- **Collectable exhaust ND 3/4" NPT**
- **Regulation system available to modulate exhaust CV between 0 and 3,8**
- **Adjustable every 90° actuator connection design**
- **Full tight zero leakage**
- **Regulation screw cannot be ejected by internal air pressure**

Key features

Suitable for

- Standard, Offshore, Sandstorm, copper free ambient condition
- Single and double acting actuators
- Low and high ambient temperature

Exclusive manifold mounting system. It is a special **STI** application to connect our accessories. Fittings or nipples are not necessary as the connection is achieved using machined connection faces with sealing o'ring. This system saves time for assembly, reduces cost on items such as fittings, reducing inventory and the shortened dimensions save space.

Technical specifications

ALUMINUM
Manifold mounting

STAINLESS
STEEL 316
Manifold mounting

Housing materials
- Anodized aluminum
- Stainless steel 316

Operating temperature*
- -20°C / +70°C
- -40°C / +70°C available on request
- -20°C / +85°C available on request

Exhaust connections
- 3/4" NPT

Operating pressure
- P min = 3 bar
- P max = 7 bar
- Design pressure = 10 bar

CV max
- Exhaust = 3,8

Actuator connections
- Manifold mounting
- 1/2" NPT

Pilot signal connection
- 1/2" NPT

Weight
- Aluminum = 1 kg
- Stainless steel 316 = 2,7 kg

(*) Lower or higher temperature available on request.

Dimensional drawing